**Life Science Classification/Scientific Names (Ch.9 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words:**

Classification-

Taxonomy-

Dichotomous key-

Archaea-

Protista-

Fungi-

*Respond to the following:*

Briefly describe how and why scientists classify organisms. (2 pts)

What are the eight levels of classification? What word device do you use to help remember the levels of classification? (2 pts)

Who is Carlos Linnaeus and what did he contribute to the field of taxonomy? Explain. (2 pts)

Describe how the four kingdoms of Eukarya are similar and different. (4 pts)

***ABOUT THE READING:***

Write three things that you learned about Taxonomy/Classification:

***Make sure to write a full sentence.***

*Example: I learned that a branching diagram that shows organisms are related and that organisms that are most closely related are closer to each other on the diagram.*

***1.***

***2.***

***3.***

***Assigned work:*** Use the following information to create a branching diagram on the back of this page. See Figure 2, pg. 223 for an example of a branching diagram. The following information describes differences between ancestral forms of horses and modern horses (Genus*: Equus). \* mya = millons of years ago\**

* *Eohippus (55 mya) – four toes*
* *Mesohippus (35 mya) – three toes*
* *Merychippus (26 mya) – one large toe, two small toes*
* *Pliohippus (3 mya) – one large toe surrounded by a hoof*
* *Equus (modern) – one large toe, more broad and flat, surrounded by a hoof*